

Appln No. 10/628,675
Amdt date April 7, 2004

AMENDMENTS TO THE ABSTRACT:

Please amend the Abstract as show below and replace the Abstract with the new Abstract set forth in the accompanying Appendix hereto.

A method of transmitting and receiving data packets over a channel susceptible to random burst and/or white gaussian noise channel errors. Each data packet is encoded, ~~to form error correctable encoded data packets. Each error correctable encoded data packet is interleaved and to form interleaved error correctable encoded data packets. Each interleaved error correctable encoded data packet is modulated to form modulated interleaved error correctable encoded data packets, which are then . Each modulated interleaved error correctable encoded data packet is transmitted over the channel. The channel can be a telephone line. The encoding includes performing Reed Solomon encoding on each data packet to form Reed Solomon error correctable encoded data packets. Each data packet is cyclic redundancy check encoded prior to performing Reed Solomon encoding. The modulated~~ Modulated interleaved error correctable encoded data packets are received from the channel, ~~and . Each modulated interleaved error correctable encoded data packet is demodulated, to form demodulated interleaved error correctable encoded data packets. Each demodulated error correctable encoded data packet is deinterleaved and to form deinterleaved demodulated error correctable encoded data packets. Each deinterleaved demodulated error correctable encoded data packet is decoded to extract each transmitted data packet. The decoding includes performing Reed Solomon decoding on each deinterleaved~~

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demodulated error correctable encoded data packet to form Reed Solomon decoded data packets. Each data packet or Reed Solomon decoded data packet is cyclic redundancy check encoded , or decoded, respectively after performing Reed Solomon encoding or decoding.